

In concluding these few notes I must acknowledge the assistance I have received from my friends Mr. John Gardner and Mr. B. A. Bower, and others in the naming of the more obscure species.

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### Records of Local Coleoptera. II.—Hydrodephaga.

By G. W. NICHOLSON, M.D., F.E.S.

I propose next to deal with the water-beetles. As, however, I must confess to having hitherto neglected these, except on my visits to the Cambridgeshire fens, the present list will prove but a meagre one. I do not propose to enumerate the majority of my Wicken captures, since, although I have found nearly all the local rarities, these are well known to occur there.

A. HALIPLIDÆ:—*Brychius elevatus*, Pz., Shelford, Cambs.; *Haliphus obliquus*, Er., Gravesend; Aldeburgh, Suffolk; *H. confinis*, Steph., Epping Forest; *H. mucronatus*, Steph., I have on several occasions taken a single specimen in drains on Burwell Fen, but never at Wicken; *H. fluvialtilis*, Aubé, Hartley Wintney, Hants.; *H. striatus*, Sharp, Gravesend; *H. immaculatus*, Gerh., Godmanchester, Hants.; Gravesend, by far the commonest species of the genus; *H. wehuckei*, Gerh., Wicken Fen and Bishop Stortford; *Cnemidotus impressus*, F., Gravesend. Mr. Balfour Browne has confirmed the difficult species of *Haliphus*.

B. DYTISCIDÆ:—*Hydroporus flavipes*, Ol., Hartley Wintney; *H. oblongus*, Steph., Balrath, Co. Meath; *H. umbrosus*, Gyll., Wicken Fen; *Agabus conspersus*, Marsh.; exceedingly common at Gravesend; *A. abbreviatus*, F. Mr. Dollman very kindly gave me a plan of where he had captured this species at Soham (*Ent. Mo. Mag.*, 1913, xlix., 14). When I visited the spot, however, on May 15th, 1912, it was dried out. It was with much pleasure, therefore, that, a few days later, I netted a couple of specimens in a small pond on Wicken Fen. *Platambus maculatus*, L., I once took a specimen in flood-refuse on the towpath at Kew; *Ilybius fenestratus*, F., Bishop Stortford, Herts.; *Rhantus grapii*, Gyll., Pulborough; *R. pulerosus*, Steph., Wicken and Burwell Fens; *R. notatus*, Berg., very common at Gravesend; *Dytiscus circumflexus*, F., Gravesend.

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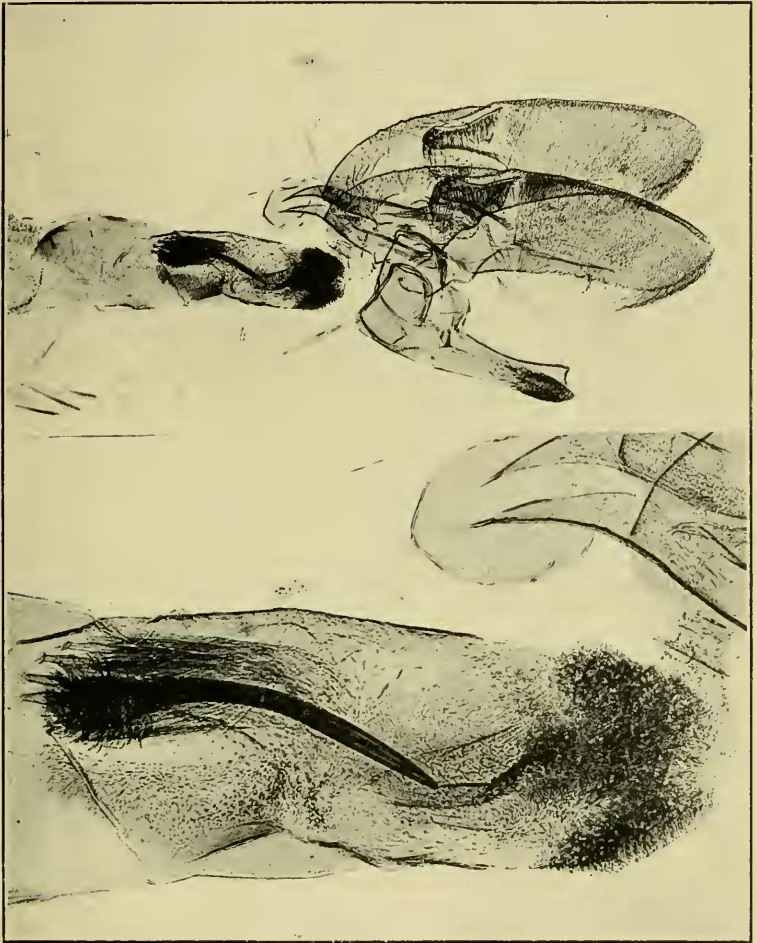
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### On the Shedding of the Cornuti in *Pyrausta aurata*, Sc. (With four plates.)

By T. A. CHAPMAN, M.D.

In the *Entomologist's Record* for 1910, at p. 53, I gave an account of certain remarkable structures in *Peridea trepida*, which are transferred from the male to the female in pairing, and referred to various other species in which similar occurrences in a less extreme form take place.

Some of these are well known to various observers, but I do not know of any actual record of them in any English publication. I take courage therefore to report one of these, which I investigated some years ago. The species I have selected is *Pyrausta aurata* (*puniccalis*). There are one or two other species of the genus in which the same facts may be observed. These are within the genus *Pyrausta* as restricted by Stainton and Barrett. In the species included, beyond



*Photo, F. Noad Clark.*

GENITALIA OF PYRAUSTA AURATA ♂, CORNUTI PRESENT.

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